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United States Department of Agriculture MONTHLY LIST OF PUBLICATIONS

MARCH 1934

Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D.C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.

Free distribution of technical material and periodicals is restricted.

FARMERS' BULLETINS

· These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

- Greenhouse construction and heating. James H. Beattie, Bureau of Plant Industry. 38 p., illus. (F.B. 1318F., rev.) Price. 5¢.
- Diseases and insects of garden vegetables. W. W. Gilbert, Bureau of Plant Industry, and C. H. Popenoe, Bureau of Entomology. 46 p., illus. (F.B. 1371F., rev.) Price, 5¢.
- The chinch bug and how to fight it. W. P. Flint and W. H. Larrimer, Bureau of Entomology. 18 p., illus. (F.B. 1498F., rev.) Price, 5¢.
- Growing alfalfa. H. L. Westover, Bureau of Plant Industry. 30 p., illus. (F.B. 1722F.) Price, 5¢.

This crop succeeds best in a dry climate where water is available for irrigation. The best soils on the farm should be selected for the alfalfa field. Alfalfa is a pasture crop and its culture, for this reason, is of value to the farmer.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to appeal crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

Pollination and blooming habits of the Persian walnut in California. Milo N. Wood, Bureau of Plant Industry. (T.B. 387T.) 56 p., illus. Price, 10¢.

The experiments were: (1) To ascertain the fertility and sterility of leading varieties; (2) to ascertain the relative time of the blooming of the flowers and the relation this might have to crop production; and (3) to determine what relation certain other pollination factors have to nut development and production.

Biology and control of tree hoppers injurious to fruit trees in the Pacific Northwest. M. A. Yothers, Bureau of Entomology. (T.B. 402T.) 46 p., illus. Price, 10¢.

In recent years considerable injury has been done by various species of *Membracidae*, commonly known as "tree hoppers." This injury was of such importance that life-history studies and control experiments were begun in 1923 and continued until 1928. This bulletin gives the results.

Hydrion concentration changes in relation to growth and ripening in fruits. Joseph S. Caldwell, Bureau of Plant Industry. (T.B. 403T.) 54 p., illus.

A report on comparative studies of the relations between changes in active acidity, on the one hand, and changes in volume and weight and in chemical composition, on the other hand, in a number of fruits of widely diverse character, representing widely separated botanical groups.

Experiments in growing roots as feed crops. H. L. Westover and H. A. Schoth, Bureau of Plant Industry. (T.B. 416T.) 15 p. Price, 5¢.

These experiments had as objectives: (1) A determination of the possibilities of obtaining profitable yields; (2) a comparison of productiveness of the different varieties under various soil and climatic conditions and (3) a consideration of the value of root crop as compared with corn silage as a source of succulence for feeding cattle. feeding cattle.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Uniformity of cotton fiber determined by field inspection. O. F. Cook and A. Y. Willis, Jr. 24 p. (Cir. 310C.) Price, 5¢.

The attainment of uniform fiber is a problem that includes not only varietal characters, breeding methods, and effects of different conditions of growth but also the precautions that are necessary in harvesting, ginning, classing, and marketing a cotton of uniform/quality. Some of the most important factors of uniformity are found in the field of production, and after all of the breeding precautions have been applied.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- The manufacture of low-acid rennet-type cottage cheese. H. L. Wilson and C. S. Trimble, Bureau of Dairy Industry. (M.P. 119MP., rev.) 10 p., illus. Price, 5¢.
- Bibliography of chloropicrin, 1848-1932. R. C. Roark, Bureau of Chemistry and Soils. 88 p. (M.P. 176MP.) Price, 10¢.
- Guide to the grading of structural timbers and the determination of working stresses. T. R. C. Wilson, Forest Service. 27 p. (M.P. 185MP.) Price, 5¢.

Presents a generalized system for specifying the features that affect the strength of timbers together with a procedure for determining the working stresses appropriate to any grade. By aid of this data, individual pieces or lots of timber can be graded by the user or distributor, grade descriptions can be prepared by the lumber manufacturer, or user, and working stresses for grades can be determined or checked by the engineer, architect, or contractor.

- Reconnaissance erosion survey of the Brazos River watershed, Texas. H. V. Geib, Bureau of Chemistry and Soils, and Ira T. Goddard, Oklahoma Agricultural Experiment Station. (M.P. 186MP.) 47 p., illus. Price, 10¢.
- Inspection of United States wheat exported through Canadian ports. Bureau of Agricultural Economics. (M.P. 187MP.) 20 p. Price, 5¢.

A condensed discussion of the phase of the grain-export business of the United States through Canadian ports. It is hoped that it may prove useful in a final solution of this important problem.

STATISTICAL BULLETINS

Tables giving statistics relating to one or more closely related agricultural commodities. Of interest to persons engaged in marketing or any business affected by agricultural production.

Grade and staple length cotton carried over in the United States as related to the domestic supply, 1928-29 to 1931-32. W. B. Lanham and O. T. Weaver, Bureau of Agricultural Economics. (S.B. 458.) 23 p., illus. Price, 5¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. Free distribution is limited to persons in the employ of the Department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Bureau of Animal Industry, Service and Regulatory Announcements, February 1934. pp. 9-23. (S.R.A.-B.A.I. 322). Price, 5¢ each.
- Notices of Judgment under the Food and Drugs Act. Food and Drug Administration. (N.J., F.D. 20551-20600.) pp. 275-334.1
- Pink bollworm quarantine, Quarantine no. 52, revision of regulations. Bureau of Plant Quarantine. 8 p. (B.P.Q.-Q. 52 rev.)¹
- Bureau of Plant Quarantine, Service and Regulatory Announcements. October–December 1933. pp. 245–299. (S.R.A.-B.P.Q. 117).
- Standards under the Tea Act. Effective May 1, 1934. Service and Regulatory Announcements, Tea No. 8. Food and Drug Administration. (S.R.A., T. No. 8.) 1 p. 1

¹ These may be obtained from the issuing bureau.

OTHER PUBLICATIONS

- Economic trends affecting agriculture. Louis H. Bean and Arthur P. Chew, Office of Information, 46 p. Price, 5¢.
- Special administrative list of publications of the United States Department of Agriculture. M. A. Downes, Office of Information. 20 p.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Vol. 18, no. 3, March 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.2

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 11, no. 2, February 1934. Price, 10¢ a copy; \$1.00 a year, domestic; \$1.50 a year, foreign.2

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the MissIssippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michigan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, \$3 a year; daily, including Sundays and holidays, 30¢ a month, \$3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, \$7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, \$2.40 a year.²

Experiment station record. Vol. 70, no. 3, March 1934. Price, \$1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; \$1.50 per volume, foreign. Single number for sale only. Price 15¢.2

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 5, no. 2, February 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.2

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, \$2.25 a year domestic; \$3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.2

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volcmes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

Indicate below, by numbers IN NUMERICAL ORDER, bulletins desired. In order to assure prompt delivery detach this frank and return in stamped envelope to United States Department of Agriculture, Office of Information, Washington, D.C. List no more than five publications. If more are desired please apply to Superintendent of Documents, Government Printing Office, Washington, D.C., enclosing remittance to cover cost of publications. publication.

Farmer's Bulletins	Leaflets	Other publications

² Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

Journal of agricultural research. Vol. 47, no. 11. Illus. December 1, 1933.

Contents:
The time factor in fertilization and embryo development in the sugar beet (G-876). Ernst Artschwager and Ruth C. Starrett.
Cytological features of Nicotiana glutinosa haplonts (G-872) John Milton Webber Liver-spot disease of pecan foliage caused by Gnomonia caryae pecanae nov. var
(G-878) J. R. Cole. Flooding to control root-knot nematodes. (No. L-2) Lloyd N. Brown. Cystine deficiency of soybean protein at various levels, in a purified ration and as a supplement to corn (Ind22). Charles L. Shrewsbury and John W. Bratz.
ler.
Plumage and eye color inheritance in the Single Comb Island Red Fowl (Kan71). D. C. Warren and C. D. Gordon.
Recovery of phosphorus from prairie grasses growing on central Oklahoma soils treated with superphosphate (Okla,-22). H. F. Murphy.
Vol. 48, no. 1. Illus. January 1, 1934.
Contents: Correlations between severity of pruning and subsequent growth and fruit yiek of apricot trees (Calif65). H. S. Reed. Correlated inheritance of reaction to diseases and of certain botanical characters in triangular wheat crosses (G-881). Elmer R. Ausemus. Correlated inheritance of reaction to stem rust, leaf rust, bunt, and black chain spring-wheat crosses (G-879). H. K. Hayes, E. R. Ausemus, E. C. Stakman and R. H. Bamberg. Effect of washing on the keeping quality of her's eggs (NY (Corpell)-25).
Correlated inheritance of reaction to diseases and of certain botanical characters in triangular wheat crosses (G-881). Elmer R. Ausemus.
in spring-wheat crosses (G-879). H. K. Hayes, E. R. Ausemus, E. C. Stakman
Reece L. Bryant and Paul Francis Sharp.
A morphological study of blind and flowering rose shoots, with special reference to flower-bud differentiation (Ark19). D. S. Hubbell.
Vol. 48, no. 2. Illus. January 15, 1934.
Contents: Zenillia libatrix Panzer, a tachinid parasite of the gipsy moth and the brown-tail moth (K-945). Philip B. Dowden
Zenillia libatrix Panzer, a tachinid parasite of the gipsy moth and the brown-tail moth (K-245). Philip B. Dowden. Development of a standard cage method for testing the effectiveness of stomach poison insecticides on the Japanese heetle (K-246). Walter E. Fleming. Frog-eye (Cercospora diazu Miura) on stems, pods, and seeds of soybean, and the relation of these infections to recurrence of the disease (N.C31). Samue G. Lehman
Frog-eye (Cercospora diazu Miura) on stems, pods, and seeds of soybean, and the relation of these infections to recurrence of the disease (N.C31). Samue
G. Lehman. Varietal differences in cotton boll shedding as correlated with osmotic pressur of expressed tissue fluids (Ariz9). R. S. Hawkins, S. P. Clark, Geo. H. Serviss
and Chas. A. Hobart. Border effect in irrigated plots of Marquis wheat receiving water at differentimes (Colo8). D. W. Robertson and Dwight Koonce.
The induence of phosphorus denciency in dairy cows on the coemcient of digestibil
ity and the balance of calcium and phosphorus (Kan72). W. H. Riddell, J. S. Hughes, and J. B. Fitch. A study of the lodine content of Pennsylvania potatoes (Pa46). Donald E. H
Frear. Comparative value of some commercial protein supplements in the rations of
growing chicks (Wash21). O. Johnson and D. Brazie. Public roads. Vol. 14, no. 12, February 1934. Price, 10¢ a copy, \$1 a year, \$1.50
a year, foreign.
Weekly weather and crop bulletin. Nos. 9-13, February 27-March 27, 1934 Price 50¢ a year, domestic; \$1 a year, foreign. ²
'2 Payable to the Superintendent of Documents, Government Printing Office, Washington D.C.
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